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First wars short must (professibly spot wolded, not hold togethmanufacturery (this, and no extensite number of drive and expansion boys of famous mountains needs. Better cases have more from one fire, and more problemator models with no may access, shaling side cover One of the best-designed radiates cause we found (see music network that you as beginners and Clin.2 model LR105254 from LETS Manufaces it has a matherboard posed that swings out be samply removing a sissic flumbuctors reach as some occur models from Delli do. The six has more has show and most bettern and a recessed flowers driver also that makes the force monel on provious Macridia inch. Paul self-benefit for clerely labeled electrical connection, mady-topowers and receip finabed metal edges (no car fingers on until clacked this as our case of choice. The only problem we noted was a bit of difficulty in firms the screws to the cooks in the slow.

appearance a count of the years not desire of the wednesdood march peterion, though to LCH for supplying as with this engellest case We much all some of our "low ress" commonsts in the VIP-103 case (13 up \$300 e-2200) AT remove from Whate Knocks Distribution The VIP-NU was a traditional lab off cover design, and has a mothertion to serve olate that can be easily serveyed for easy availlable. lectrical connections were clearly labeled and metal edges were Market Breever, nort covery that are not couly knocked out to Pales aliches out before invisition the methodosoft realic setthe price from concrements then with deliver come like the Clay

model that recorders rende-to-compare govern. While mosaling a and referred the found the educatively they and unit extent of the back It didn't suclude a recondary firs or a roesker, either The VIP-940 (16-inch towor/235W AEX power) was a more conoff sale people and a better feel to the free-peopl switches then we what's missing from the 303 model. The case is lockable (vgs a gold-

Note however, that this case design is not appropriate for fall-size repherbourds such to the dual-CPU limition IV model (in all, the The delates 14-such cost with the rounded front peacls from Aces/ADpen looks take a good one, with a better-thos-excess power

high-quality power supply), or the spec-welded Jameson case wats the ourse, all connector building efforts have to be use usuals a case of

Tools of the Trede Metherhound monerals occommend using an activative strip to ground

DOMMs, motherhoods and CPUs are extressive and exists durantel other screw or components, we found it really below to have a manner tured objects sepond disk drives and magnetic needs). Good lighting, such as a hight you can position to shine into the case without having

Follow the Instructions

trops, electrical requirements, CPU and RAM inscallation, and other II CPU before belong the motionhoad to the case's grounted panel? Yep Punch out port cover bleaks before because assembly, see Many PC builders use a new-conductive translator (office small weathers or neces of subbensed faire. Which also may bell out down metal case meaning plate, too

intel cooling for This lat proassumented We chose a PBC550 - not the fisher 100MHz external bus perfur-OS enhacements such as

pomiar CPU models in the 496/66 was in its time.

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We also expect the 300MHz Celence-A, is conguestion with overclosing-friendly introheural like the Alei BH6, is to a pupular model with opposition and virtic-conguent began. For Super 7 systems, we chose as AMD Ke 2.500 — again, a chip with lags. We cooled this CPU with a CPU Cooler breast flar Sure those are botter once but that ball-bearing from the combo-

does the trick it the right

Putting it All Together
A Doppy first with a CD 80M direct on at such as is
the installation of Windows 96, is the essent way so give
up and maning. Alternatively, you might find up occurs
a hand first on another compute, and copy the Wint

Ner hand drive
We configured our test system using some or all of
To-labs. SCSI CD-ROM drive.
BCD 36X IDE CD-ROM drive.

Pagest UDMA 2 (IDE) or hard drive
 Seagate Medicine Pro UDMA 2 (IDE) hard drive
 ATI All sa Wooder PCI graphes cond.

Lenderl, Winfast 2000 ACP graphes card,
 Cheater Sound Blaster 32,
 Xion EtherLink XI, TPO 10MB PC1 network and
 NEC Source date.

• 64MB PC100 SD6

Skot 1/8/K Beards
ARR Blds (right)win shot centers) — The beard is less capeniors
than the BX-5 (their breached; it, and it as many overy a bester product
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mante bolds. You see, the BX-6 and BH-6 are major table; desting
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strand only to the Asjam AXXII Plan, das is our Quality dissort choice in the IXX colony.

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— as impaction is 5 per cent improvements. With the Ragie Pie, fin AXMS Pier sowell a 225 in our Beyon loci — self-liewed 2 per cent factor than the Axm Bills of the Schleepiered (Off Belliest IV booth, 8th the Bill-6 school) procures never opportunities the profittion. Acques local on a performance change as it were right and, solded bills never/strainfung, the board was no translation out up and configuent. The Aligne board is a confirmance change as it were right and, solded bills never/strainfung, the board was no translation out up and configuent. The Aligne board was confirmed in tooks the Sief I and our The Aligne board was seen fair to the Sief I and

Social 7 angeones, of all the househ used on the three put neural.

The AXES Has a gived at 1529

Glaphy GA-18XC (Fig. 4) were fixedly cond—The board made

a 116 on our initial lispon term, but by writing a Table yamper and

using the recommended Parlemance unlarge as haled in the mandi-th's Bajoci benchmark resid gamped in 22; (We did not oversible

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using the recommended Furthermaco satings as has do in the rail, the Bagot benchmark resist, appended 12.5 (left do set owner that CFU or FSB). The manual provides description of optical formacies ratings for the BOOK, but provides a location of the BOOK, but provides a location of the BOOK, but provides a location of the BOOK o

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Note that the design of the first of the control of

For high others will have a before the perference will fill fill a proportion for a before the perference will fill fill a proportion had been perfect to had the personal to appending system had been performed conclude countries and the performance style. Chess the person was both, we found Shartle's BEOS controlled CPU speed research to form that the personal state of the controlled controlled controlled construction to be very stranged and firstly, quite finange and FECH SOSSIAN. The meabout is usual at 1855 1129 and coulding and FECH SOSSIAN. The meabout is made at 1855 1129 and coulding the controlled to the person of the person of

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BX



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Super 7 Boards Super 7 motherhounds, despite the fact that several other bounds were a little factor. The Asia, PSA-8 was the most trouble-fine Socket. 7 board secod, helped in part by a concess and easy-to-follow manual We had no troubles with 66MHz or PC100 sensory. We sho liked the board's preparal round combline with a sentence array of two CD and our MENG radio connection, plus durant and analog radio MD. (including SPDIF infaul), and a state-port connector Supplied postcools provide a PS/2 pop. AC and XT small, and a model port. Apboard fully supports fun-off during AFX sloop goods. (An AF power

ADpea AXSWre (http://www.aquec.aaa.com) - For those who want maximum performance, the AOnen AXSRPm (\$139) is an excellent 286 en our Bapco benchmark austs, placing it about 10 per cent above SIMM and DRMM reducts and supports a 112MHz external clock, fortion includes a quick reference bookles to help experienced system builders not the structure and aumous set on quackly

inspliction of corresponds a bit more strengal than things much have (USS63) board. Probable as a small of an ability to successfully ran with the RAM extend to the 100MHz CFU clock, this board rated to stague problems everal! On the fire safe, the MVF3 chipset's ability to no nessery acrodingnossily sprices boards based on the VIA set. Overall, though, this board was ahead of the DFI product in both DET PENYTA / 500-02 5-9500 We found better results unclean on

the DPI P58V3+, which also uses the MVP3 chipset. It provides both 200 on, will be structive to these looking for a Seper 7 board with a although emphics performance was addly low in the Carellbraw and ProvMoker trats. This bound includes #xPCE and 3xSSA stats although our mostly successful attempts to corect it into naming it anythms better than "Testasie" spede on 66MHz memory surgest those house to become an existing set of SIMMs of LX-ryon DIMMs

The running comes up short on the subject of possible RAM contype) SDRAM clocked to the 66MHz AGP clock that worked well or several other manisters, the DFI board couldn't even run votes of the

WARRY STRAM was report to the CRE clock and the Serv. 105 BIOS under left our Windows startue screen with bits of purhase

Gigabyte GA-SAX (http://www.pipalyte.com) - This board (board on the ALs chapset) will sepon) to those weatons ofenity of fature three DOMM sockets are consideuld you buy? monard by a near of PS/2 norts.

to any memory products fram and two ESB posts. As the obsoung, Meter, Teshibi, Ameres petracids, Corone, MEC and Teams weeks (in that order) are the most board. When choosing a motherwhele Transmay a considered more raw sacus to consider the board Invot such Baby AT bours such as the DELPSBV to provide iting the number of full-leasth its four PCI slors in an ATX

Descrip these lengtimens by equipped with both All and ATX power stuply connection

and provide appropers with an entire transition such than the new ATX solution. Note, however, that advanced features such as "salk

the Massago MS63606 was the factor board of all the Super 7 peodally took services, becomes made at one of the most delivery motherthe feature-set of the MS62605 Ecoupped with 1024KB of Level-2 cache, perhoard sudio and support for either AF-or AFX-type power. this maintened was one of the few we looked at that used at AMI BBOS is course with a nort card for eve USB and a PSQ mouse perf. Color another mins DBN year bibeled IRD, a sensente nest conf accordseg a game port and sound I/O, and even a SPDIF IN cable. (A jumper HRTF (send related transfer fearthest positional audio, and Matsocre 63606 is our pick for Super 7 Performance Board.

Gramus Bennett in Senjar Editor at The Computer Paper

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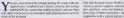
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But That's All Changing. on the creation Apple Magazinshi sa 1986, et has been a facility workship

cay. Has in the computer industry, nothing streys the mane for very long. being accurately amplicated by a viriety of new or reproved

sales and profit apportunities

Medem, I'm Adem nelos it molly makes computing easier for the average person, it will

Yall, to the Antonia Concerns awa'r a lead of antiford burron beam. Bather they're

peters posed a deletions how do you talk to machines? How do you As polycome no book, company are in some more street line. I benefal

Berron/Machine Interface

none to coverage systems, rackathor Young Corn. That countries in



Pule Alto Research Contar (FARC) as Childrens was a fount of tonein speed devices and once interfaces for its Lists and Magnetich pom-

which is watch most on notcheck comparison.

The RSI Plague One unexpected compounce of the keyboard and mosse as basic

agest devices has been an apolonic of Repositive Stone Laury, the BSI is a major problem that affects surfaces of computer assets. It the the combiling can be beenly supermind. Teday's solutions on bade tion plotforms, and cwelled avendment of too much time at the key-

They Also Serve

There are runn other saved technical rates that have apparent a notice-

transpersion are stell found on some devices. Of course, there is a





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At least in theory, insolvable in composing is about making people's levels before Research into special sends have deter insulated uses manifested received in the control of the received produced properly have been added using the control of the computer and computes and computes properly have been added to the computer course. A cree geterable of worstake computers, which communicate for protection with welfaces to enable beginning to the communication of the protection with welfaces to enable beginning to the communication of the protection with welfaces to enable beginning to the computers.

worked derivers were initially skugged to allow people with and or manual control problems to interest with computer. Whate more may set often be much anony in openind problem the versulty impaired, the dead, or people with motor commit problems. there are self-important more conditioned in for the development of the control processes input formers. By learning to more the work.

there is self-important merr constituents in for the development of beat. many appropriate input derivers. By learning to meet the special requirements of the developed, the rechnology reducing to learning to consider better empty solutions for the maximization population.

Hottast Trends in input

Without a doubt, the man apparentness for resellers are in the preasure spen devices exponents keptoneth such as those from Mecrosoft. Or spen, Acer and Loganch, new formats of means, which solvide socialing wheels and improved exponent draight and were recognised.

ton solutions from IDM, Lenton & Hample and Despite Systems.

Sellian Beware
Don't Strengted the permission reads of the customer. One is placed in the customer of the placed for the customer. One is placed as a large strength of the customer of the placed in the plac

Smither, some authority wing not processed computer acquaints foundarly some annill chandle people field uplit keybounds is nighty nonbig to comfuntably reach all the keys.

What encountable mentalishmen may fall if the computer to activate in these sustailed as it our accounted associate to handle the

Some Notable Playare are Making Their Moves by Jet Door.

Apple Computer Inc. (http://www.pplb.com/ - Apple has a kinary of sizeplayare find in reference PC craftees. In bland more reference and apple on the property in the property in

hink is of from the Insider page of mainwholder in the first low-years. The new Apple Mela New a Unique, smill certain mouse, which some send on other laws as their.

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has run for name than \$X years settin is full range of Visitina represent recognitions and control to the product of the produ

IBMs greatest arresplin is in the research labe in as Altendan Lab faculty leaf for Finnesco in the research. CDM-viss abit to view on generature of Figot believelyers in greatent including improved Theolikids sobvans, per computing, touch eithy and stry adjoint-based operation sobvans, per computing, touch eithy and stry adjoint-based operation properties are personal for effective of person and the below.

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substantial processing load visco recognition require. If the rescopline or sent-feed is of less quality, the data the visco input activates in raying to accept run by a publish Smillarly, of the mode of the perticular PC being used generates a for of alternool neutrinoses: the "resist" will comput the deviated visco data, other midiate visco

CHE WAR

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Also Rans, or Still in the Running? Dopper Bill Greek respected authorized for one companies. It has

creer taken off in a major open tocheology Apple's Newson MessageFish, which was supposed to violate per region; win a fley Blowerer, some products such as the I/Cost Poles lise of hindfold devices and the Popins Stylistic pan computers have above their in a middle for would designed, productive pen system.

Changing the Shape of Computing Today's dealary computer is almost centers to change redoubly in the

and the to 10 years. Vace recognision will play a lag rule in that to Comparison may extend by the bolistic down time use chip, and he fully possible or waspide the last the last form to the control of Comunity Community Wilderstein the last forms to disaccour Editor of Comunity Community Wilderstein.

Rf Evans is Associate Editor of Canadian Computer Wielessler He ton be reached in policity on com.

Cogneth New seasons (Into, News Veglach Class) — Lippach has been perlayed in entric celesiate for monthly congess in the world — beings on enlayed in entric celesiate for monthly entricing the form of de-layers, supporting layson celesiates of the layers of the layers of the layers of the layers of seasons (layers) and the layers of the layers of the layers of the seasons (layers) and a searous, comed plan monthly the layers of the perila seasons of the layers of the layers of the layers of the perila seasons of the layers of the layers of the layers of the perila seasons of the layers of the layers of the layers of the first of the layers of th

renically cell to connections to interver services. Lighted this officer is valid lies of computer wise, including the Microalities littled. The conting wheel relate southing up and disses large decreases or Wild press much asset. The company's games controlled wholely internet wheels, among ones, and invested south or Verifices.

Sample Technologues Inc. offers Key Prace, Cherry, Seize

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Mitchieves respirate freeling count.

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larger County Led has advered a number suppose up prequires to the For verall offices and home haved businesses, intest Creads in

self-carrieved people need to be able to track their figurers. It recon-

on's brooks Crossdorn but require such as GST and MSE in relations, a them to the right involution.

with relation to those revision on that there should be no reference ren-ups over CST, for example

steful to a debt reduction planter that says to help develop a size-by-But for dealers and VARs, a better set of financial products may be Quel Books 56 and Oucldboks Pto 96 for Windows - which effet more newstanters for restorairches and address value

Intal save this version of Quaddioxies was created offer considentile convintion with until businesses. "We asked small business were that it wangle to use, easy to customize and works the way their

Cutada Ltd. "We Inspeed carefully and takend QueekBooks 98 to too providers as that it is possible to continuous the software to create

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PRESIDENCE PROPERTY TO CARDING COUNTY WAS TAKED 12

The Many Faces of a Channel

In Paul Wrighter

Living with multiple personalities almost seems to be a key to success

become more pranounced of late. "Over 50 per cent of the energonies (se the channel) do two or three though," says Bob Prephard resident he nests that so one area - for example, software, sorvices or hard-

of PCs his been buse. Unlike its competitors: this vendor does not companies such as IBM Corp., Compan Computer Corp. and Hewlettunsold products for too many months, he says. The attitude at the PC maker's level. Monochove says, is: "That's said your tough look or

For the past year, IBM, Corners and Hewlest-Packard have all most part, they've set to set the programs really off the around, per-

Doll is the overwhelmingly dominant player in the Canadian direct PC seles changed. This differs from the U.S. where Dell his-Games y 2000 which is proxy strong in the U.S. (b) base't had much of an impact in the Canadian market. I think if they detected more of

Small userables that sell-dreet comercie about a hard of the surives of the perchasine olean of computer dodors, consultants, VMRs The contratition of shareer profit energies for computer hard-

more likely to stick with the major vendors, particularly IBM, Compaction in the channel that those companies every more reliable products than the clone or whate hos makers. "They are focused on the brands thu don't erve them prouble."

who stack with the waper broads. IRM and Company is the part 18 months have been reducing their right of authorized dealers in the

Player



n in for large conjunct computer dealers that as SHL Systembreux, Compagn or GE Capital Time composion, because of finer axes and well-benied directiols, see that an large-volume sales. Of course, seedings need to find ways to provide more convex.

and value to both the corporate and home customers, say the pendits. But that can entail a surpre revealment. The small operations that make under \$1 mellion as gross sales titll constitute the mayor or of the close to \$0.000 dealers as the Canadau channel, and can-

of human, says theses. He extractes that up to a quarter of the measure generated by the large conjugate dealers core from serware, while services account for only 10 per cent of nevenues for the sudder revellers. He also more refler to this bods on the PC residentitions, which have developed services produce that con the soft to end seams.

Thoses weekers how some restrikes stay as horsion without

Does weeden how some motion may in human without without which they had goes to destin side! We be say in the role main the same executionaryon the encountered opth years ago while desig othered servers. The SEC motival may be reported solicitizing the names on new to the releasy to state to compute declinating the nameson new to the releasy to state to compute declinating the nameson new to the releasy to state to compute declinating. My our not reporting treates [and on a report help in your for some other than the proof on your own. I find the substity is getting older. It's mall immals, and.

one than 30 out on your own. I may the incoursy is getting mater it is all largely made."

Regarding typical resultors, he said "They mated their bestieseson in the 'No. They get wone continuem and they are still them."

The 'No. A formaced is not thingly to discopper, After sales support and services some materian to the grawing medical of visual and home

and service sure matters to the growing medics of would not become effective, which have barryly support to call on the assestance as a special configuration, says Prinched!

The VBR business model norths because it can offer that persontation derivect in every community, adds IDC's Given. The supporenducid heat the inferior meaning has been of resulted in medical than the feether meaning had in force in the next of resulted.

overy term and cry at Created. Whereas Dell dotte? here explicitly at the head bread."

Destributions, not resellent, are the ones facing major challenges, according to SSEL Sharelidd. He says that build-los order is put over step afters the way to the PC resolver altitume good over the east draw years to have the channel and procusitely the large durarbates manufacture that produces Weeklers seek to go of of the more-view.

"If you are a younger person, [you] are more likely to work for concepts than go set on your seen. I find the industry is getting older. It's still largely male...."

— Alleret December

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Ottown-based SHL Systemboure her He entirement that handwide of do-emborated resoliton have surred to selling second-over PC engagneeds "1-deb"t blink fory were during the volumes they had communial is, or HEM (and) Consupe appeared them in do do."

need "I do't think they were doing the volumes they had committed up or HIM (need) Changing requested here in do". Joden'sy melynt say the number of company visions, in magar materials the control of the control of the control of the coning PC market. Putters Shop, for material, his shat clean some outside on the West Conel. It's the smaller machine has not emperaturing the some (Earstein) proposed, say Menoviere. He suggest that sharskap and the control of the c In Shimidal's assessor for the sear faints, the condition will contain to they and will compute registering that the distribution transiclasmic assumbles will have to expend from their correct time and

comperco missioneds. "It as it massives sectionalizing, they dea's lave the
constraint processes or systems to do it, or, the people to do it. But that
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doorn's any they coult." (p)
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RE-Assessment on North TH CANADA CONSTITUTIONS 2

DUSINESS BASICS I this time of year, you've

probably stories to myen your 1998 expenses relating

Take heart. With some good see all legiment and climble owers lowe a lot years on the don't adopt a pro-active and stages-

Many small burgers means deductions available or how to take full advantage of them. Others over-Whatever the season, if you'm pay-Here are the defumous most

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each year from sweeze. Make sure you obtain insurance coverage. · Furniture and Equipment Year office furniture, comeany hard, ware and software, printer, flox, copier and other equipment have so

· Home: Deduct the portion of your home that as ward-even larts for

40 CHRISTOCOMUST MANDRAIT NAMED THE MANDRAISMAN

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or Jues, we supposed that begin my "No" to the Coleron - letel's they see I moduct surred at the bargerstone low-cost applications - in some cases, below the level of the previous-resembles Pergram MNOC and cor-

rints was the CPU itself. Level 2 cache prevoles a second level of highsecod coulor from Societed CPUs like the Penture or AMD's All-house

ecs, wrate in favor of the Celeron's coverages and the shifter to equity but. red Coloros beyond as meet speeds. But as next-granution Colemo-A (formerly a cache in the CPU's costneligo. Colemn --The Securi sociates 128KB of Level-2

sors mobale \$12KB of Level-2 cycle Crimos desgre goes beyond the higher-

processors are able to severa the Level-2 cude at full processor spend Pentrum II remains at the same speed necesses as cache at only 150MHz. votices has useful -- typically 65MMs or TOEARRY.

listed in referring to the coulted 300MHz Orientes in Oriente 300s CPUs Anything referred to as a Colomo 700 (without the samen-eness letter The addition of the Level 2 anche, however, makes at hunder to

so that it can only be set to the CPE's exect secret or 500500s. Since

ment at anti-axis warring to improve system performance, but nature at unservendings systems wanting wanting to everyleck systems to self.

Not serrorisegly, finite versions are expected. 360MHz and 600MHz models are in her, which will once span pesh out goes expenses

But that's not all. Deposity, the speculation was that letel was promoting the controler-device Coleme to move the low-origid pagiet owny from Socker-7 motherbounk auto (batel's progressry) Slot-I that could use either late! MMX or competition "CPU+ Ske-1 decision

or Brained to Celerou or Personn II CPUs, both made only by best Odeton models, evaluable as even lower Albert Yu. Intel vace-recordent and non-

that the company was rated on obsorpt out the Size I version of the CPC, melacuse it 15 arrows on ZDNct, Yu expected there ver-

tecture found on cornert Personn II and

. Majertous delice moosen will acide the ow Ketze tions. These will be consider to the 3D-Now asstructions build into the strondy-evallable AMD 65 2, but will not be compatible with 3D-

- 40X Asselvment Graphics Port (AGP) will double the speed of the ealogy developed by Rambas and first used in the Nicotodo 64

. And software-based DVD support grakes at assert to scalege CD-But here's whee's not expected year year the 64-bit Mexical olso Delaws with the technology count a wasley of preestancy both for

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